

LONDON- WEST MIDLANDS ENVIRONMENTAL STATEMENT

Volume 5 | Technical Appendices

CFA1-6 | Euston to Ickenham

Register of local level effects (EC-005-001)

Ecology

November 2013

LONDON- WEST MIDLANDS ENVIRONMENTAL STATEMENT

Volume 5 | Technical Appendices

CFA1-6 | Euston to Ickenham

Register of local level effects (EC-005-001)

Ecology

November 2013



Department
for Transport

High Speed Two (HS2) Limited has been tasked by the Department for Transport (DfT) with managing the delivery of a new national high speed rail network. It is a non-departmental public body wholly owned by the DfT.

A report prepared for High Speed Two (HS2) Limited.

High Speed Two (HS2) Limited,
Eland House,
Bressenden Place,
London SW1E 5DU

Details of how to obtain further copies are available from HS2 Ltd.

Telephone: 020 7944 4908

General email enquiries: HS2enquiries@hs2.org.uk

Website: www.hs2.org.uk

High Speed Two (HS2) Limited has actively considered the needs of blind and partially sighted people in accessing this document. The text will be made available in full on the HS2 website. The text may be freely downloaded and translated by individuals or organisations for conversion into other accessible formats. If you have other needs in this regard please contact High Speed Two (HS2) Limited.



Printed in Great Britain on paper
containing at least 75% recycled fibre.

Contents

Appendix EC-005-001	1
1 Introduction	2
2 Local and Parish Level Effects	3

List of tables

Table 1: Summary of local/parish level adverse effects arising from the construction/operation of the Proposed Scheme within CFA1 to CFA6	3
Table 2: Summary of local/parish level adverse effects arising from the construction/operation of the Proposed Scheme within CFA1 to CFA6	4
Table 3: Summary of local/parish level adverse effects arising from the construction/operation of the Proposed Scheme within CFA1 to CFA6	5
Table 4: Summary of local/parish level adverse effects arising from the construction/operation of the Proposed Scheme within CFA1 to CFA6	6
Table 5: Summary of local/parish level adverse effects arising from the construction/operation of the Proposed Scheme within CFA1 to CFA6	7
Table 6: Summary of local/parish level adverse effects arising from the construction/operation of the Proposed Scheme within CFA1 to CFA6	8

Appendix EC-005-001

Environmental topic:	Ecology	EC
Appendix name:	Register of local level effects (CFA 1 to 6)	005-001
Community forum areas:	<p>CFA 1: Euston Station and approach:</p> <p>CFA2: Camden Town</p> <p>CFA3: Primrose Hill to Kilburn</p> <p>CFA4: Kilburn (Brent) to Old Oak Common</p> <p>CFA5: Northolt Corridor</p> <p>CFA6: South Ruislip to Ickenham</p>	

1 Introduction

- 1.1.1 This document is an appendix which forms part of Volume 5 of the environmental statement (ES) for the Proposed Scheme. Table 1 provides a summary of anticipated local/parish level adverse effects on ecological receptors arising from the construction and operation of the Proposed Scheme for the following community forum area (CFA):
- CFA 1: Euston Station and approach:
 - CFA2: Camden Town
 - CFA3: Primrose Hill to Kilburn
 - CFA4: Kilburn (Brent) to Old Oak Common
 - CFA5: Northolt Corridor
 - CFA6: South Ruislip to Ickenham
- 1.1.2 The document should be read in conjunction with Volume 2 (Community forum area reports), Volume 3 (Route wide effects assessment) and Volume 4 (Off-route effects assessment).

2 Local and Parish Level Effects

Table 1: Summary of local/parish level adverse effects arising from the construction/operation of the Proposed Scheme within CFA1 to CFA6

CFA	Habitat, species or species group	Receptor/location	Effect arising from construction or from operation?	Description of effect prior to 'other mitigation'	Effect addressed by mitigation and/or compensation proposed (Yes/no)
CFA1	Grassland, trees and ornamental planting	Amenity grassland and scattered trees at St James's Garden	Construction	Loss of amenity grassland and scattered trees	Yes
CFA1	Grassland	Amenity grassland in the north-east corner of Regent's Park	Construction	Loss of amenity grassland	Yes
CFA1	Breeding birds	Breeding bird assemblage in St James's Gardens	Construction	Loss of all nesting and foraging habitat at St James's Garden.	Yes
CFA1	Breeding birds	Breeding bird assemblage in Regent's Park	Construction	Loss of very small area of trees offering nesting habitat adjacent to the coach park.	Yes

- 2.1.1.1 Receptors for which significant effects are not expected during construction or operation in CFA1 are: Camley Street Nature Park Local Nature Reserve (LNR), Regent's Park Site of Metropolitan Importance (SMI), buildings and structures which may support very limited higher-plant vegetation; wintering bird assemblages in Regent's Park; and terrestrial invertebrate assemblage at St James's Gardens and railway land.

Table 2: Summary of local/parish level adverse effects arising from the construction/operation of the Proposed Scheme within CFA1 to CFA6

CFA	Habitat, species or species group	Receptor/location	Effect arising from construction or from operation?	Description of effect prior to 'other mitigation'	Effect addressed by mitigation and/or compensation proposed (Yes/no)
CFA2	Amenity turf, scattered trees and ornamental shrubbery with flower beds	Trees at Camden Gardens	Construction	Loss of tree at Camden Gardens	Yes
CFA2	Scrub	Scrub habitat at North Line at York Way SBI.II	Construction	Loss of scrub habitat	Yes
CFA2	Roosting Bat assemblages	Bat assemblages present within this area (excluding that associated with Grand Union Canal)	Construction	Potential loss of non-maternity roost of common species within trees, buildings and structures not subject to survey in this area.	Yes
CFA2	Terrestrial Invertebrates	Terrestrial invertebrate assemblage at North London Line SBI.II and other railway land	Construction	Loss of foraging and breeding habitat and connectivity of wildlife corridor	Yes
CFA2	Common reptiles (if present)	Potential common reptile populations at North London Line SBI.II	Construction	Loss of foraging habitat and connectivity of wildlife corridor	Yes

2.1.2 Receptors for which significant effects are not expected during construction or operation in CFA2 are: Camley Street Nature Park Local Nature Reserve (LNR); London Canals Site of Metropolitan Importance (SMI); Copenhagen Junction Site of Borough Importance Grade 1 (SBI.I); water bodies - Grand Union Canal; water bodies - balancing pond; grassland; buildings and structures with very limited higher-plant vegetation; and breeding bird assemblage at the Grand Union Canal.

Table 3: Summary of local/parish level adverse effects arising from the construction/operation of the Proposed Scheme within CFA1 to CFA6

CFA	Habitat, species or species group	Receptor/location	Effect arising from construction or from operation?	Description of effect prior to 'other mitigation'	Effect addressed by mitigation and/or compensation proposed (Yes/no)
CFA3	Breeding birds	Assemblage of breeding birds at Adelaide LNR and Chalk Farm Embankment and Adelaide Nature Reserve SBI.I	Construction	Loss of nesting and foraging habitat	Yes
CFA3	Winter birds	Winter bird assemblage at Adelaide LNR and Chalk Farm Embankment and Adelaide Nature Reserve SBI.I	Construction	Loss of nesting and foraging habitat	Yes
CFA3	Common reptiles (if present)	Potential common reptile populations associated with Adelaide LNR and Chalk Farm Embankment and Adelaide Nature Reserve SBI.I and rail land to the south.	Construction	Loss of habitat including foraging habitat	Yes
CFA3	Common amphibians	Common amphibian populations associated with ponds at Adelaide LNR	Construction	Loss of terrestrial habitat	Yes

2.1.3 Receptors for which significant effects are not expected during construction in CFA3 are: Adelaide Local Nature Reserve (LNR); London Canals Site of Metropolitan Importance (SMI); assemblages of bats foraging at land south of the B509 Adelaide Road; species-rich grassland is present at Adelaide LNR; two small ponds at Adelaide LNR; amenity grassland in the other areas; and buildings and structures which may support very limited higher-plant vegetation.

2.1.4 Receptors for which significant effects are not expected during operation in CFA3 are wintering birds and breeding birds.

Table 4: Summary of local/parish level adverse effects arising from the construction/operation of the Proposed Scheme within CFA1 to CFA6

CFA	Habitat, species or species group	Receptor/location	Effect arising from construction or from operation?	Description of effect prior to 'other mitigation'	Effect addressed by mitigation and/or compensation proposed (Yes/no)
CFA4	Terrestrial invertebrate assemblages	Terrestrial invertebrate assemblages on railway land at Old Oak Common and west of Old Oak Common	Construction	Loss of foraging, resting and breeding habitat	Yes
CFA4	Common reptile population	Common reptile population at Wormwood Scrubs and adjacent rail land at Old Oak Common	Construction	Loss of foraging, resting and breeding habitat on rail land	Yes

2.1.5 Receptors for which significant effects during construction or operation are not expected in CFA4 are: Wormwood Scrubs LNR; London Canals Site of Metropolitan Importance (SMI); Kensal Green Cemetery SMI; Wormwood Scrubs Railway Embankment SBI.I; Wormwood Scrubs Park SBI.I; Old Oak Common Sidings Birch Wood SBI.I; St. Mary's Cemetery SBI.II; North Acton Cemetery Site of Local Importance (SLI); Central Line West of White City SBI.I; Species rich amenity turf at Kensal Green Cemetery; Rough grassland in Wormwood Scrubs; Amenity turf at wormwood scrubs park and towpath of the Grand Union Canal; Water bodies - Grand Union Canal; Recent secondary birch woodland; Developing secondary woodland on railsides; Recently planted plantation woodland at Wormwood; Scrub; Hedgerows - garden and park hedges and evergreen shrubs; Breeding bird assemblage at Wormwood Scrubs; Breeding bird assemblage at St. Mary's RC Cemetery ; Breeding bird assemblage at the Grand Union Canal at Old Oak Common, Little Wormwood Scrubs and Kensal Green All Souls Cemetery; Wintering bird assemblage at Wormwood Scrubs; Terrestrial invertebrate assemblages at Wormwood Scrubs; Terrestrial invertebrate assemblages at Kensal Green Cemetery; Terrestrial invertebrate assemblages at St. Marys RC Cemetery; and Terrestrial invertebrates assemblages in other habitats.

Table 5: Summary of local/parish level adverse effects arising from the construction/operation of the Proposed Scheme within CFA1 to CFA6

CFA	Habitat, species or species group	Receptor/location	Effect arising from construction or from operation?	Description of effect prior to 'other mitigation'	Effect addressed by mitigation and/or compensation proposed (Yes/no)
CFA5	Ealing Central Sports Ground Site of Local Importance (SLI)	SLI to the west of Horsenden Lane South, Ealing	Construction	Loss of 0.1 ha of Ealing Central Sports Ground SLI representing 4% of the site.	Yes
CFA5	Breeding birds	Breeding bird assemblages in railway land at Hanger Lane, Westgate, Greenpark Way and Mandeville Road vent shaft main compounds, and the reedbed at the Grand Union Canal crossing at Greenford.	Construction	Loss of small areas of nesting and foraging habitat and connectivity of wildlife corridor	Yes
CFA5	Terrestrial Invertebrates	Terrestrial invertebrate assemblages in land south of Carr Road	Construction	Loss of small area of foraging and breeding habitat	Yes
CFA5	Terrestrial Invertebrates	Terrestrial invertebrate assemblages in railway land at the Westgate, Greenpark Way and Mandeville Road vent shaft main compounds	Construction	Loss of small areas of foraging and breeding habitat and connectivity of wildlife corridor	Yes
CFA5	Common reptiles	Populations on railway land at the Greenpark Way, and Mandeville Road vent shaft main compounds and potential populations at land including Hanger Lane Gyratory, Guinness Mounds, May Gardens and land south of Carr Road.	Construction	Loss of small areas of foraging habitat and connectivity of wildlife corridor	Yes

2.1.6 Receptors for which significant effects during construction or operation are not expected in CFA5 are: Fox Wood Local Nature Reserve (LNR); Perivale Wood LNR; Islip Manor LNR; Northolt Manor LNR; Perivale Site of Metropolitan Importance (SMI) ; London Canals SMI ; Former Guinness Mounds Site of Borough Importance Grade I (SBI.I) ; River Brent at Hanger Lane SBI.I; Abbey Road Mound and Bestway Park Site

of Borough Importance Grade II (SBI.II); Victoria Road Railway Banks SBI.II; Bat assemblages roosting, foraging and commuting at Perivale Wood; bats foraging and commuting bats at the Grand Union Canal Greenford ; Potential otter population utilising the River Brent, wetland south of Carr Road at the crossing of the Grand Union Canal at Greenford; Hobby at Perivale Wood LNR and SMI; Rough grassland on railsides; Amenity grassland ; Reed swamp at Perivale; Reed swamp north of the Grand Union Canal at Greenford; Woodland at Perivale; Grassland at Perivale; watercourses - River Brent.; water bodies - Grand Union Canal; water bodies -Perivale Ponds; water bodies - Islip Manor LNR ponds; water bodies, pond at Brentham Meadows; Breeding bird assemblages within Perivale Wood; Wintering bird assemblages in Perivale Wood, Islip Manor fields and Lord Halsbury Memorial Playing Fields; Terrestrial invertebrate assemblages in grassland south of Perivale Wood; and Terrestrial invertebrates assemblages in other habitats.

Table 6: Summary of local/parish level adverse effects arising from the construction/operation of the Proposed Scheme within CFA1 to CFA6

CFA	Habitat, species or species group	Receptor/location	Effect arising from construction or from operation?	Description of effect prior to 'other mitigation'	Effect addressed by mitigation and/or compensation proposed (Yes/no)
CFA6	Victoria Road Railway Banks SBI.II	Victoria Road Railway Banks SBI.II	Construction	Loss of 0.49 ha of Victoria Road Railway Banks SBI.II representing 2% of the site	Yes
CFA6	Mad Field Covert, Railway Mead and the River Pinn SBI.II -	Mad Field Covert, Railway Mead and the River Pinn SBI.II	Construction	Loss of 0.48 ha of Mad Field Covert, Railway Mead and the River Pinn SBI.II representing 4% of the site	Yes
CFA6	Grassland	Species rich mesotrophic grassland at Ickenham Green.	Construction	Loss of small area of species rich mesotrophic grassland	Yes
CFA6	Watercourse	Newyears Green Bourne, Hillingdon	Construction	Culverting of Newyears Green Bourne beneath realigned Harvil Road resulting in loss of riparian habitat over a total of 37m.	Yes
CFA6	Terrestrial invertebrate	Terrestrial invertebrate assemblage at Mad Field Covert, the PRow alongside Highway Farm, and land to the south-east of Breakspear Road South	Construction	Loss of foraging and breeding habitat	Yes
CFA6	Breeding bird assemblages	Breeding bird assemblage at Copthall Farm and Copthall Covert	Construction	Loss of breeding habitat	Yes
CFA6	Breeding bird	Breeding bird assemblages at land on	Construction	Loss of breeding habitat	Yes

CFA	Habitat, species or species group	Receptor/location	Effect arising from construction or from operation?	Description of effect prior to 'other mitigation'	Effect addressed by mitigation and/or compensation proposed (Yes/no)
	assemblages	the east side of Breakspear Road South			
CFA6	Breeding bird assemblages	Breeding bird assemblages at the north-west side of Breakspear Road South, Oak Farm, Ruislip Golf course, Mad Field Covert, Highway Farm, and rail land between Ickenham High Road and Harvil Road	Construction	Loss of breeding habitat	Yes
CFA6	Breeding bird assemblages	Breeding bird assemblages at Newyears Green Covert	Construction	Loss of breeding habitat	Yes
CFA6	Winter bird assemblages	Winter bird assemblages around West Ruislip at Breakspear Road South, through Ruislip Golf Course and through Copthall Farm.	Construction	Loss of habitat	Yes
CFA6	Otter	Otter at the River Pinn (if present)	Construction	Disruption of potential commuting routes	Yes
CFA6	Otter	Otter at the Newyears Green Bourne (if present)	Construction	Disruption of potential commuting routes	Yes
CFA6	Protected / Notable plants	Protected / Notable plants in land to the south-west of Bayhurst wood (if present)	Construction	Loss of habitat potentially supporting protected / notable plant species.	Yes
CFA6	Protected / Notable plants	Protected / Notable plants including buckthorn, bearded couch, and musk thistle at Newyears Green SBI.I (if present)	Construction	Loss of habitat potentially supporting protected / notable plant species.	Yes
CFA6	Protected / Notable plants	Protected / Notable plants including pignut in grassland at Ickenham Green.	Construction	Loss of habitat supporting protected / notable plant species.	Yes

CFA	Habitat, species or species group	Receptor/location	Effect arising from construction or from operation?	Description of effect prior to 'other mitigation'	Effect addressed by mitigation and/or compensation proposed (Yes/no)
CFA6	Protected / Notable plants	Broad-leaved helleborine recorded on railway land near Breakspear Road South	Construction	Loss of habitat supporting protected / notable plant species.	Yes
CFA6	Common reptiles	Populations of common reptiles along the railway land and adjoining grassland and agricultural land.	Construction	Loss of habitat and connectivity of wildlife corridor	Yes
CFA6	Common reptiles	Populations of common reptiles in fields south of Bayhurst Wood (if present)	Construction	Loss of habitat	Yes
CFA6	Badger	Badger populations present in fields and woodland in this area	Construction	Loss of habitat and risk that badgers could be killed or injured as a result of collisions with vehicles associated with haulage of material to the excavated materials laydown areas.	Yes
CFA6	Badger	Badger populations present in fields and woodland in this area	Operation	Risk that badgers could be killed or injured as a result of collisions with passing trains.	Yes

2.1.7 Receptors for which significant effects during construction or operation are not expected in CFA6 are: Ruislip Woods Site of Special Scientific Interest (SSSI); Fray's Farm Meadows SSSI; Ruislip Woods National Nature Reserve (NNR); Ruislip Wood and Poor's Field Site of Metropolitan Importance (SMI); Islip Manor Local Nature Reserve (LNR); Fray's Valley LNR; Central Line West Ruislip Branch Site of Borough Importance Grade II (SBI.II); Yeading Brook between Roxbourne Park and Ruislip Gardens SBI.II; Herlwyn Park Recreation Ground and Railway Banks SBI.II; Common Plantation and Park Wood SBI.II; Winter assemblage at Bayhurst Wood; Otter at the Yeading Brook; Otter at the Ickenham Stream; Mature semi-natural, mainly secondary broadleaved woodland with small areas of plantation along Ickenham Green; relatively species-rich wet grassland is present between the River Pinn and Ruislip Golf Course; ponds at Lord Halsbury Memorial Play fields; field pond near Ickenham Pumping Station; ponds at Highway Farm; watercourse - River Pinn; watercourse - Yeading Brook ; and terrestrial invertebrates assemblages in other habitats.